



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference 10.289/K		FOR FURTHER ACTION		See Form PCT/PEAA16
International application No. PCT/HU2004/000101		International filing date (day/month/year) 02.11.2004		Priority date (day/month/year) 01.03.2004
International Patent Classification (IPC) or national classification and IPC H04L29/06, H04M1/253				
Applicant JOB BAGY, Miklos				
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 5 sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input checked="" type="checkbox"/> sent to the applicant and to the International Bureau a total of 15 sheets, as follows:</p> <p style="margin-left: 40px;"><input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p style="margin-left: 40px;"><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>				
<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the opinion</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>				
Date of submission of the demand 28.09.2005		Date of completion of this report 22.02.2006		
Name and mailing address of the International preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2339 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465		Authorized Officer Horn, M.P. Telephone No. +49 89 2399-7579 		

**INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY**

International application No.
PCT/HU2004/000101

Box No. 1 Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language , which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the **elements*** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

Description, Pages

1-13 filed with the demand

Claims, Numbers

1-3 filed with the demand

Drawings, Sheets

1 as originally filed

☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing

3. ☒ The amendments have resulted in the cancellation of:

- ☐ the description, pages
- ☒ the claims, Nos. 4
- ☐ the drawings, sheets/figs
- ☐ the sequence listing (*specify*):
- ☐ any table(s) related to sequence listing (*specify*):

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages
- ☐ the claims, Nos.
- ☐ the drawings, sheets/figs
- ☐ the sequence listing (*specify*):
- ☐ any table(s) related to sequence listing (*specify*):

* If item 4 applies, some or all of these sheets may be marked "superseded."

**INTERNATIONAL PRELIMINARY REPORT
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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	1-3
	No: Claims	
Inventive step (IS)	Yes: Claims	1-3
	No: Claims	
Industrial applicability (IA)	Yes: Claims	1-3
	No: Claims	

2. Citations and explanations (Rule 70.7):

see separate sheet

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International application No.

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Re Item V

**Reasoned statement with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement**

- 1 Reference is made to the following document:

D1: EP-A-1 328 101 (AVAYA TECHNOLOGY CORP) 16 July 2003 (2003-07-16)

- 2 The document D1 is regarded as being the closest prior art to the subject-matter of claim 1. It discloses:

- 2.1 Set of equipment for secure direct information transfer over the Internet, which contains information transmitting terminal devices suitable for collaborating with an information forwarding network, taking part in the information traffic, the individual information transmitting terminal devices are equipped with a sender partial unit, a receiver partial unit and a storage partial unit comprising an ID-register containing a device identification signal, a C-register suitable for storing a coding key and a D-register suitable for storing a decoding key, where the C-register containing the coding key is in connection with the sender partial unit, and a coding key and a collaborating decoding key are allocated to the individual information transmitting terminal devices, the storage partial unit of each information transmitting terminal device is completed with one or more temporary storage registers for the temporary storage of the coding keys of other information transmitting terminal devices, while the information forwarding network is completed with at least one central traffic co-ordinating unit, the central traffic coordinating unit has an MD-register storing a master decoding key and a memory unit containing base cells for storing the coding keys belonging to the individual information transmitting terminal devices and a master coding key collaborating with the master decoding key is allocated to the central traffic co-ordinating unit, and the C-registers of the information transmitting terminal devices are provided with a master coding key collaborating with the master decoding key stored in the MD-register of the central traffic co-ordinating unit,

- 2.2 The subject-matter of claim 1 differs mainly from the disclosure of document D1 in that:

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In the storage partial unit of the individual information transmitting terminal devices there is only information free from the given information transmitting terminal device's own coding key, while only the coding key of the other information transmitting terminal device participating in the information exchange is temporarily stored in the temporary storage register of the first information transmitting terminal device, and only the coding key of the first information transmitting terminal device participating in the information exchange is temporarily stored in the temporary storage register of the other information transmitting terminal device.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

- 2.3 The problem to be solved by the present invention is to increase the security of the encrypted communication session.
- 2.4 The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

Document D1 does neither disclose nor suggest the use of independent coding and decoding keys for a communication session between two communicating parties. Moreover, document D1 does neither disclose nor suggest that the parties are unaware of their respective coding key.

In fact, document D1 teaches away from such a solution because it discloses the encryption of the communication session by a single session key which is effectively chosen by the calling party.

The other prior-art cited in the search report does not relate to individual coding and decoding keys but also to a single session key.

- 2.5 Claims 2 and 3 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.